

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 June 2004 (03.06.2004)

PCT

(10) International Publication Number  
**WO 2004/046293 A2**

- (51) International Patent Classification<sup>7</sup>: **C11D 3/42**
- (21) International Application Number:  
PCT/EP2003/012583
- (22) International Filing Date:  
11 November 2003 (11.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
02405998.2 19 November 2002 (19.11.2002) EP
- (71) Applicant (for all designated States except US): **CIBA SPECIALTY CHEMICALS HOLDINGS INC.** [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **SCHEFFLER, Goetz** [DE/DE]; Schlossweg 7B, 79639 Grenzach-Wyhlen (DE). **ROHRINGER, Peter** [CH/CH]; Sechsjuchartenstrasse 1, CH-4124 Schönenbuch (CH). **FLETCHER, Ian, John** [CH/CH]; Bürgenstal 27, CH-4312 Madgen (CH).
- (74) Common Representative: **CIBA SPECIALTY CHEMICALS HOLDINGS INC.**; Patentabteilung, Klybeckstrasse 141, CH-4057 Basel (CH).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: AMPHOTERIC FLUORESCENT WHITENING AGENTS

(57) Abstract: The present invention provides novel bis-triazinylaminostilbene amphoteric fluorescent whitening agents, comprising both individual components and mixtures thereof, a process for their preparation, intermediates useful for their preparation and use of the fluorescent whitening agents for the fluorescent whitening of paper.